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and

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DEPARTMENT OF DEFENSE

TRI-SERVICE
PERFORMANCE MEASUREMENT WORKING GROUP

RELATIONSHIPS BETWEEN CATCHMENT AREA POPULATION AND ANCILLARY SERVICE EXPENDITURES IN NAVAL MEDICAL COMMAND FACILITIES

CAPT Scott A. Optenberg, Dr.P.H., USAF, MSC LCDR Steven D. Olson, M.S., MSC, USN LTC John A. Coventry, Ph.D., MS, USA

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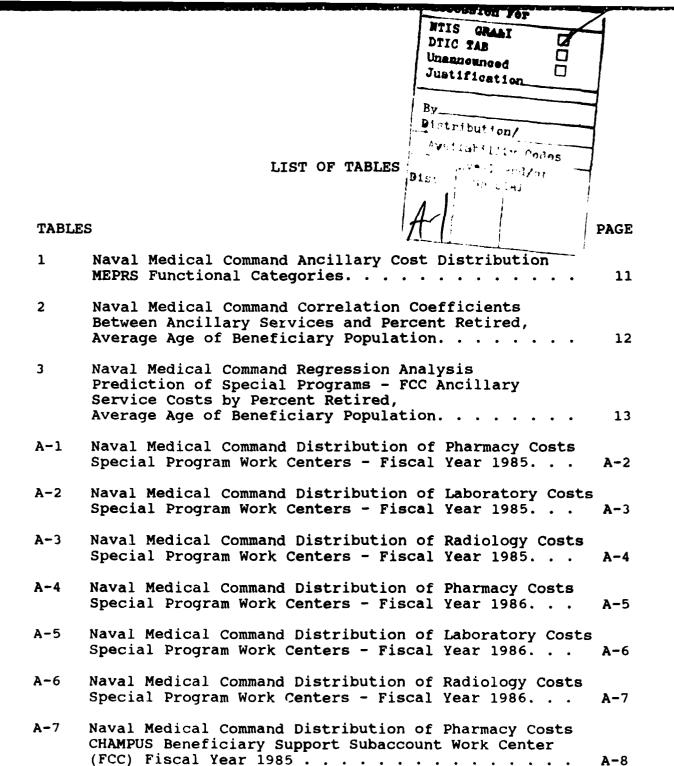
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TABLE OF CONTENTS

SECTION																							PAGE
DISCLAIM	ER		•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	i
REPORT D	OCUMEN	TAT	ION	P	AGE	E (DD	F	orn	1]	L47	73)		•	•	•	•	•	•	•	•	•	ii
TABLE OF	CONT	ENTS	•	•			•	•	•	•	•	•	•	•				•			•	•	iii
LIST OF	TABLES	s	•	•			•	•	•	•	•			•	•		•	•		•	•		iv
LIST OF	FIGURI	Es .		•			•	•			•	•		•				•		•	•	•	vii
SUMMARY			•	•			•	•	•	•	•	•		•		•	•	•	•			•	ix
INTRODUC	TION.						•	•	•		•	•					•		•			•	1
METHODOL	OGY .		•			•	•	•	•	•		•	•	•	•		•		•	•	•	•	3
RESULTS			•	•		•	•	•	•	•		•	•	•	•					•		•	4
CONCLUSI	ons .		•	•		•	•	•	•		•	•	•	•	•	•		•	•		•	•	9
REFERENC	ES			•		•	•	•	•	•			•		•	•	•	•	•	•	•		14
DISTRIBU	TION I	LIST	•			•	•	•	•	•	•		•			•	•	•		•			15
APPENDIC	ES																						
Α.	Naval Speci	ial E	Pro	gra	m	Wo	rk	C	ent	er	8	Fi	s c	al	Y	'ea	ars	1	98	5			A- 1
В.	Naval Budge Catch Fisca	t fo	r . A	CH/ rea	MP	US Av	Si era	ige ipp	or A	t ge	by o	f	er Ca	to	nt hm	: R	let it	ir Po	ed pu	li	in iti	.or	1
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	ano l	700				-	_	_	_														L-1



(FCC) Fiscal Year 1985

Naval Medical Command Distribution of Radiology Costs CHAMPUS Beneficiary Support Subaccount Work Center

A-9

A-10

A-8

A-9

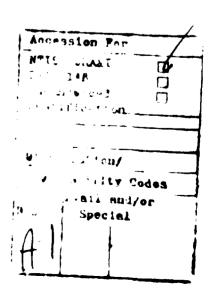
LIST OF TABLES (Cont'd)

TABLE	s	PAGE
A-10	Naval Medical Command Distribution of Pharmacy Costs CHAMPUS Beneficiary Support Subaccount Work Center (FCC) Fiscal Year 1986	A- 11
A-11	Naval Medical Command Distribution of Laboratory Costs CHAMPUS Beneficiary Support Subaccount Work Center (FCC) Fiscal Year 1986	A-12
A-12	Naval Medical Command Distribution of Radiology Costs CHAMPUS Beneficiary Support Subaccount Work Center (FCC) Fiscal Year 1986	A- 13
C-1	Naval Medical Command Hospitals Prediction of Pharmacy Budget for CHAMPUS Support by Percent Retired in Catchment Population Fiscal Year 1985	C-2
C-2	Naval Medical Command Hospitals Prediction of Pharmacy Budget for CHAMPUS Support by Average Age of Catchment Population Fiscal Year 1985	C-3
C-3	Naval Medical Command Hospitals Prediction of Laboratory Budget for CHAMPUS Support by Percent Retired in Catchment Population Fiscal Year 1985	C-4
C-4	Naval Medical Command Hospitals Prediction of Laboratory Budget for CHAMPUS Support by Average Age of Catchment Population Fiscal Year 1985	C-5
C - 5	Naval Medical Command Hospitals Prediction of Radiology Budget for CHAMPUS Support by Percent Retired in Catchment Population Fiscal Year 1985	C-6
C - 6	Naval Medical Command Hospitals Prediction of Radiology Budget for CHAMPUS Support by Average Age of Catchment Population Fiscal Year 1985	C-7
	Naval Medical Command Hospitals Prediction of Pharmacy Budget for CHAMPUS Support by Percent Retired in Catchment Population Fiscal Year 1986	C-8

LIST OF TABLES (Cont'd)

TABLES	5	PAGE
C-8	Naval Medical Command Hospitals Prediction of Pharmacy Budget for CHAMPUS Support by Average Age of Catchment Population Fiscal Year 1986	C-9
C-9	Naval Medical Command Hospitals Prediction of Pharmacy Budget for CHAMPUS Support by Average Age of Catchment Population (Squared) Fiscal Year 1986	C-10
C-10	Naval Medical Command Hospitals Prediction of Laboratory Budget for CHAMPUS Support by Percent Retired in Catchment Population Fiscal Year 1986	C-11
C-11	Naval Medical Command Hospitals Prediction of Laboratory Budget for CHAMPUS Support by Average Age of Catchment Population Fiscal Year 1986	C-12
C-12	Naval Medical Command Hospitals Prediction of Radiology Budget for CHAMPUS Support by Percent Retired in Catchment Population Fiscal Year 1986	C-13
C-13	Naval Medical Command Hospitals Prediction of Radiology Budget for CHAMPUS Support by Average Age of Catchment Population Fiscal Year 1986	C-14





LIST OF FIGURES

FIGURES	PAGE
B-1 Naval Medical Command Hospitals Percent of Pharmacy Budget for CHAMPUS Support by Percent Retired in Catchment Population Fiscal Year 1985	. B-2
B-2 Naval Medical Command Hospitals Percent of Pharmacy Budget for CHAMPUS Support by Average Age of Catchment Population Fiscal Year 1985	. В-3
B-3 Naval Medical Command Hospitals Percent of Laboratory Budget for CHAMPUS Support by Percent Retired in Catchment Population Fiscal Year 1985	. B-4
B-4 Naval Medical Command Hospitals Percent of Laboratory Budget for CHAMPUS Support by Average Age of Catchment Population Fiscal Year 1985	. B-5
B-5 Naval Medical Command Hospitals Percent of Radiology Budget for CHAMPUS Support by Percent Retired in Catchment Population Fiscal Year 1985	. B-6
B-6 Naval Medical Command Hospitals Percent of Radiology Budget for CHAMPUS Support by Average Age of Catchment Population Fiscal Year 1985	. B-7
B-7 Naval Medical Command Hospitals Percent of Pharmacy Budget for CHAMPUS Support by Percent Retired in Catchment Population Fiscal Year 1986	. в-8
B-8 Naval Medical Command Hospitals Percent of Pharmacy Budget for CHAMPUS Support by Average Age of Catchment Population Fiscal Year 1986	. B-9
B-9 Naval Medical Command Hospitals Percent of Laboratory Budget for CHAMPUS Support by Percent Retired in Catchment Population Fiscal Year 1986	. B- 10

LIST OF FIGURES (Cont'd)

FIGUR	RES	PAGE
B-10	Naval Medical Command Hospitals Percent of Laboratory Budget for CHAMPUS Support by Average Age of Catchment Population Fiscal Year 1986	B-11
B-11	Naval Medical Command Hospitals Percent of Radiology Budget for CHAMPUS Support by Percent Retired in Catchment Population Fiscal Year 1986	B-12
B~12	Naval Medical Command Hospitals Percent of Radiology Budget for CHAMPUS Support by Average Age of Catchment Population	
	Fiscal Year 1986	B-13

SUMMARY

The National Defense Authorization Act for Fiscal Year 1987 (National Defense, 1986) directs the Secretary of Defense to establish by regulation the use of diagnosis related groups (DRGs) as the primary criteria for allocation of resources to Military Health Service System (MHSS) facilities. As one response to this legislation, the Assistant Secretary of Defense (Health Affairs) created the Tri-Service Financial Working Group (FWG) to assist in planning for the implementation of DRGs for resource allocation to MHSS facilities. One immediate concern of the FWG was the extent of direct patient care ancillary costs which have no workload credit. Of particular interest to the FWG were the amount and variation of ancillary costs contained in MEPRS subaccount work center FCC - Civilian Health and Medical Program for Uniformed Services (CHAMPUS) Beneficiary Support.

This study focused on medical treatment facilities of the Department of the Navy, Naval Medical Command. The analysis addressed three research questions:

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- a. To what extent do catchment area population characteristics influence the consumption of ancillary services?
- b. What is the extent and variability of ancillary workload and costs within MEPRS functional category F - Special Programs, particularly subaccount work center FCC - CHAMPUS Beneficiary Support?

c. Is a population based model appropriate to predict the percent of ancillary workload accumulated in subaccount work center FCC - CHAMPUS Beneficiary Support?

age of the catchment area population increased, pharmacy consumption transferred from inpatient and outpatient care to the special programs functional category. Data also suggested a similar transfer to dental care. These relationships were not demonstrated with laboratory and radiology. Analysis also demonstrated that there was substantial variation of workload and costs within MEPRS functional category F - Special Programs, particularily subaccount work center FCC - CHAMPUS Beneficiary Support. Some facilities accumulated extensive costs in this work center. Finally, it does appear that a population based model is appropriate to predict the percent of ancillary workload accumulated in subaccount work center FCC - CHAMPUS Beneficiary Support for pharmacy only.

RELATIONSHIPS BETWEEN CATCHMENT AREA POPULATION AND ANCILLARY SERVICE EXPENDITURES IN NAVAL MEDICAL COMMAND FACILITIES

INTRODUCTION

The National Defense Authorization Act for Fiscal Year 1987 (National Defense, 1986) directs the Secretary of Defense to establish by regulation the use of diagnosis related groups (DRGs) as the primary criteria for allocation of resources to Military Health Service System (MHSS) facilities. The Act further directs that the use of DRGs for budgetary purposes begin 1 October 1987 for inpatient services and 1 October 1988 for outpatient services (National Defense, 1986).

As one response to this legislation, the Assistant Secretary of Defense (Health Affairs) created the Tri-Service Financial Working Group (FWG) to assist in the provision and analysis of financial data, and assist in planning for the implementation of DRGs for resource allocation to MHSS facilities.

One immediate concern of the FWG was the extent of direct patient care ancillary costs that have been accumulated in Medical Expense and Performance Reporting System (MEPRS) final accounts which have no workload credit. If these costs were demonstrated to be substantial, then resources would have to be allocated on some basis other than Health Care Unit (HCU) or DRG based workload measures, such as a catchment area population based model. In

January 1987, the FWG requested that a study be conducted to determine the relationships between catchment area population and consumption of ancillary services in MHSS facilities. The FWG requested that pharmacy, laboratory, and radiology ancillary services be studied. Of particular interest to the FWG were the amount and variation of ancillary costs contained in MEPRS subaccount work center FCC - Civilian Health and Medical Program for Uniformed Services (CHAMPUS) Beneficiary Support.

This study focused on medical treatment facilities of the Department of the Navy, Naval Medical Command. The analysis addressed three research questions:

- a. To what extent do catchment area population characteristics influence the consumption of ancillary services within Naval medical treatment facilities at the functional category level?
- b. What is the extent and variability of ancillary workload and costs within MEPRS functional category F - Special Programs, particularly subaccount work center FCC - CHAMPUS Beneficiary Support?
- c. Is a population based model appropriate to predict the percent of ancillary workload accumulated in subaccount work center FCC CHAMPUS Beneficiary Support?

The two population characteristics used in this study were the percent of the catchment population who were retired and the average age of the catchment population. The functional categories studied

were inpatient care, outpatient care, dental care, and special programs.

CERTIFICATION CONTRACTOR MANAGEMENT CONTRACTOR SECRETARION PROGRAMMENTO

MEPRS files containing the Expense Assignment Stepdown (EAS) data for intermediate operating accounts were used as the source for ancillary workload distribution and MEPRS PCOM files were used as the source for ancillary expenses. Data was supplied by Department of the Navy, Naval Medical Command, Washington, D.C. Actual statistical analysis was conducted using SAS, Version 5 System Software (SAS Institute, Inc., 1985a, 1985b).

METHODOLOGY

Prior to statistical analysis, MEPRS EAS files required substantial reformatting. The MEPRS EAS files contained header records identifying the ancillary service and a variable number of detail records associated with each header record. Each detail record represented a final operating account within the medical treatment facility which consumed some portion of that ancillary workload. The performance factor for pharmacy, laboratory, and radiology ancillary services was the weighted procedure and was contained on the detail record as net quarterly totals for each final operating account.

For each ancillary service studied the following procedure was followed for both Fiscal Year (FY) 1985 and FY 1986:

a. Quarterly ancillary workload totals were added and yearly totals for each final operating account were determined. Yearly final operating account totals were determined at the functional

category (one digit), summary account (two digit) and within functional category F - Special Programs, at the subaccount work center level (three digit).

- b. Facility ancillary workload grand totals were determined and each final operating account total was divided by the facility total to determine the proportion of total facility ancillary workload consumed by each final operating account.
- c. Facility total ancillary costs were extracted from MEPRS
 PCOM files and merged with the data base discussed above. Facility
 total ancillary costs were multiplied by each final operating
 account ancillary workload proportion to determine each final
 operating account consumption of ancillary costs.
- d. The two population parameters: the percentage of retired in the population and the average age of the population, were extracted from the Resource Analysis and Planning System (RAPS) module of the Defense Management Information System (DMIS) and merged with the data base. The data extracted from RAPS was FY 1985 catchment area population data and available for hospitals only.

RESULTS

Initially, the distribution of ancillary costs across functional categories at the Naval Medical Command level was determined and is depicted in Table 1. A substantial percentage of pharmacy, laboratory, and radiology costs were accumulated in

special programs in both FY 1985 and FY 1986. Percentages range from 12% to 22%.

Correlations between ancillary service percent consumption at the functional account level (inpatient, outpatient, dental, and special programs) and the catchment area population characteristics of percent retired and average age are depicted in Table 2. These relationships are presented for both FY 1985 and FY 1986. was an exploratory study, a .10 Type I error rate was used for correlation analysis. For pharmacy there was a moderately strong, statistically significant, positive correlation between percent special program functional category ancillary service consumption and both percent retired and average age in both FY 1985 and 1986. This relationship with the special program functional account was not demonstrated with laboratory and radiology ancillary services. Pharmacy also demonstrated less strong, statistically significant, negative correlations with outpatient care and dental care in FY During FY 1986, there was a moderately strong, statistically significant, positive correlation between laboratory consumption in dental functional category and both percent retired and average age. During FY 1985, a moderately strong, statistically significant, positive relationship was exhibited between radiology consumption in dental functional category and both percent retired and average age. Although the sign of the relationship is consistent in FY 1986, the relationship was not statistically significant.

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Ancillary service consumption within the special program functional category was examined in detail. In Appendix A, Tables A-1 to A-6 present the distribution of ancillary costs across work centers within the special programs functional category for both FY 1985 and FY 1986. The subaccount FCC - CHAMPUS Beneficiary Support work center contained the large majority of pharmacy costs in the special program functional category for both FY 1985 and FY 1986. In contrast, the percentage of laboratory costs contained in subaccount work center FCC was very small with a majority of laboratory costs contained in subaccount FCD - Support to Other Military Agencies. Radiology costs exhibited a relationship similar to that of pharmacy with a majority of radiology costs accumulated in subaccount work center FCC, but the overall percentage again remained small.

Tables A-7 to A-12 present the percent of the ancillary budget contained in work center FCC - CHAMPUS beneficiary support by each medical treatment facility. The percentage of total facility pharmacy budget spent for CHAMPUS beneficiary support demonstrated wide variability among Naval medical facilities. In FY 1985 this percent ranged from a low of .05% at NH Roosevelt Roads to over 43% at NMC Port Hueneme. In FY 1986 a similar pattern of variation was demonstrated. With regard to laboratory and radiology, although variability was again high in both FY 1985 and 1986, the overall percentages were very low in comparison to pharmacy.

Regression analysis was conducted to determine the extent that the population characteristics of percent retired and average age could predict consumption of ancillary services by work center FCC in Naval hospitals. When preliminary regression analysis was conducted for pharmacy and residual plots examined, two hospitals were marked outliers; NH Camp Lejeune and NH Roosevelt Roads. Consequently, these two facilities were eliminated from the analysis. For consistency these two facilities were excluded from all regression analysis. Appendix B provides plots of percent of total facility ancillary budget for CHAMPUS beneficiary support by both percent retired and average age of the catchment area population. Regression lines have been included on those plots which resulted in statistically significant regression equations. Appendix C provides the analysis of variance tables for the regression analysis performed.

Table 3 provides a summary of regression results. Regression equations were not statistically significant with the exception of pharmacy, where both percent retired and average age of the beneficiary population were statistically significant in predicting the percentage of the facility's pharmacy budget consumed by subaccount work center FCC - CHAMPUS Beneficiary Support. The variance explained by percent retired and average age was high in view of the relatively small sample sizes. In FY 1986, examination of pharmacy by average age plots suggested that a curvilinear relationship might be present. To test this relationship age

squared was included in the model. Although there was a slight improvement in explained variance the coefficients were not statistically significant and the higher order model was rejected.

Although the preceding results were statistically significant, and appeared relatively consistent from FY 1985 to FY 1986, caution must be used when using MEPRS data for policy decisions. Individual hospital MEPRS data often revealed inconsistencies over time and differences among similar facilities which were difficult to explain. A thorough analysis of trends and patterns in the ancillary service distributions was not performed, but a few examples of apparent inconsistencies in the data are given below.

At the Naval Medical Command level, pharmacy costs allocated to the special program subaccounts dropped from 22% of all pharmacy costs in FY 1985 to 16% in FY 1986. While many of the Navy facilities exhibited consistency over the two years, there were several significant changes which should be investigated. At NH Portsmouth, pharmacy costs going to the special program subaccounts dropped from \$2.6 million to just over \$640,000, or from 30% of all pharmacy costs to only 8%. Similar changes were observed in other facilities (NH San Diego ~ 20% in FY 1985, 11% in FY 1986; NH Oak Harbor ~ 18% in FY 1985, 11% in FY 1986). At NH Oakland, pharmacy procedures allocated to F accounts dropped from about 18% in FY 85 to 11% in FY 1986; additionally, pharmacy cost data was missing for FY 1986. NH Charleston had both workload and cost data missing for

FY 1986 although F accounts accounted for more than 22% of their total pharmacy costs of \$4.3 million in FY 1985.

Most Navy facilities also exhibited consistency over the two fiscal years in radiology costs and workload. However, several exceptions were noted. While about 15% of radiology costs at the Naval Medical Command level were assigned to Emergency Clinics (BI) in each of the two years, NH Great Lakes dropped from 15% in FY 1985 to none in FY 1986. In FY 1985, NH Great Lakes reported radiology costs going to 21 different two-digit MEPRS accounts, including 47% to Primary Care Clinics (BH), but in FY 1986 they showed radiology costs assigned to only 14 accounts with 92% in Primary Care. Diego reported no radiology costs assigned to Emergency Clinics in FY 1985 (44% assigned to Surgery Clinics), but 13% in Emergency Clinics in FY 1986 (only 12% to Surgery Clinics). NH Oakland reported no radiology costs going to any inpatient services in FY 1985 and FY 1986. Finally, NH Orlando reported radiology cost data in 17 two-digit accounts in FY 1985 (6% to impatient accounts, 30% to Primary Care), but only 7 two-digit accounts in FY 1986 (none to inpatient areas and 78% to Primary Care).

CONCLUSIONS

Analysis demonstrated that catchment area population characteristics exerted a strong influence on the consumption of pharmacy services within Naval medical treatment facilities at the functional category level. As the percent retired and average age of a Naval Medical Command hospital's catchment area population

increased, pharmacy service consumption shifted from inpatient care and outpatient care to special programs. These relationships were not demonstrated with laboratory and radiology ancillary services. The data also indicated there was a similar laboratory (FY 1986) and radiology (FY 1985) workload shift to dental care when percent retired or average age increased.

Analysis also demonstrated that there was substantial variation of ancillary workload and costs within MEPRS functional category F - Special Programs, particularily subaccount work center FCC - CHAMPUS Beneficiary Support. Some facilities accumulated extensive costs in this work center.

It does appear that a population based model would be appropriate to predict the percent of ancillary workload accumulated in subaccount work center FCC - CHAMPUS Beneficiary Support, but for pharmacy service only.

Finally, there may be logical explanations for many of the apparent inconsistencies noted in this report, but such wide fluctuations in cost and workload data need to be studied further. It appears that insufficient edit checks for reasonableness of MEPRS data are built into the system. Unless a thorough analysis of data and reporting problems is conducted with feedback and training provided to individual hospitals, the data will never improve and decisions made on the basis of MEPRS data will continue to be suspect.

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TABLE 1

NAVAL MEDICAL COMMAND

ANCILLARY COST DISTRIBUTION

MEPRS FUNCTIONAL CATEGORIES

MEPRS FUNCTIONAL CATEGORY	PHARMACY PERCENT FY 1985	PHARMACY PERCENT FY 1986	LABORATORY PERCENT FY 1985	LABORATORY PERCENT FY 1986	RADIOLOGY PERCENT FY 1985	RADIOLOGY PERCENT FY 1986
INPATIENT	19.41	18.59	24.49	23.39	7.12	12.57
OUTPATIENT	58.43	64.81	63.11	61.97	80.35	75.04
DENTAL	.40	.76	.12	. 14	.12	40.
SPECIAL PROGRAMS	21.77	15.84	12.28	14.50	12.40	12.34

TOTAL OF DITINGS (TETETETING FERNAMM) DOLLDON

TABLE 2

NAVAL MEDICAL COMMAND

CORRELATION COEFFICIENTS

BETWEEN ANCILLARY SERVICES AND

PERCENT RETIRED, AVERAGE AGE OF BENEFICIARY POPULATION

FISCAL YEAR 1985

GY	I.P. O.P. DEN. S.P.	.019 .018 .540*126	.016 .015 .486*138
RADIOLOGY	0.P. DE	.018 .	.015
	I.P.	.019	910.
	I.P. O.P. DEH. S.P.	045	049
ATORY	DEN.	.048	.049
LABORATORY	0.P.	033	010012 .049049
	I.P.	050	010
	S.P.	.222369 .684**050033 .048045	241380 .670**
PHARMACY	P. DEN. S.P.	-, 369	380
PHAR	0.P.	ı	j.
	1.P. 1 0.1	223	209
		* RETIRED	AVERAGE AGE

FISCAL YEAR 1986

		PHARMACY	MACY			LABORATORY	ATORY			RADIO	RADIOLOGY	
	I.P.	0.P.	O.P. DEN. S.P.	S.P.	I.P.	I.P. O.P. DEN, S.P.	DEN.	S.P.	1.9.	0.P.	I.P. O.P. DEN. S.P.	S.P.
RETIRED	056	349*	432*	349*432* .666**	.071	.071061 .496*168	.496	-,168	.081	223	.081223 .337 .258	.258
VERAGE AGE	046	-,356*	464*	356*464* .686**	.119	.119123 .528* .149	.528*	.149	.141	223	.141223 .333 .245	.245
4EPRS Functional Categories - I.P. = A - Inpatient Care, O.P. = B - Outpatient Care, DEN. = C - Dental Care, S.P. = F - Special Programs.	ional Cat	egories re, S.P.	1 I P	= A - Inp Special P	atient	Care, O.	Р. и	- Outpa	tient Ca	re,		

Prob. < .10

**Prob. < .05

SKY NYSYKROJ CERKKKI PIDIJIJ NEDIZBA KOLOLISKERSKO PERKERSKO PROGRAM POSKODA POSKODA POSKODA POSKODA POSKODA P

TABLE 3

THE PARTY OF THE P

NAVAL MEDICAL COMMAND

REGRESSION ANALYSIS

PREDICTION OF SPECIAL PROGRAMS - FCC ANCILLARY SERVICE COSTS

BY PERCENT RETIRED, AVERAGE AGE OF BENEFICIARY POPULATION

SIG.	.001.001	.001.001< .001	S Z Z		x.s.	. x x
F-TEST	22.841 30.403	22.308 25.157 16.145	.164	.598	2.644	1.307
ADJ. R ²	53.5% 60.8%	52.9% 55.9% 61.5%	-5.9%	-4.8%	13.0% 15.2%	2.78
SLOPE	.954 1.483	.628 .972 -2.609 + .056	.012	.030	.095	.019
INTERCEPT	-6.651 -37.545	-3.338 -23.585 -32.332	.489	.074	735	.143
z	20	20 20 20	16 16	11	12	12 12
	PHARMACY - FY 85 % RETIRED AVERAGE AGE	PHARMACY - FY 86 % RETIRED AVERAGE AGE AGE + AGE ^Z	LABORATORY - FY 85 % RETIRED AVERAGE AGE	LABORATORY - FY 86 % RETIRED AVERAGE AGE	RADIOLOGY - FY 85 % RETIRED AVERAGE AGE	RADIOLOGY - FY 86 % RETIRED AVERAGE AGE

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DISTRIBUTION LIST

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APPENDIX A

NAVAL MEDICAL COMMAND

ANCILLARY COST DISTRIBUTION

SPECIAL PROGRAM WORK CENTERS

FISCAL YEARS 1985 AND 1986

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NAVAL MEDICAL COMMAND

DISTRIBUTION OF PHARMACY COSTS

SPECIAL PROGRAM WORK CENTERS - FISCAL YEAR 1985

MEPRS SPECIAL PROGRAM WORK CENTER	MEPRS SPECIAL PROGRAM NAME	PHARMACY COST	PERCENT
!			
FAE	ALCOHOL AND DRUG ABUSE	\$233,282	96.
FAF	DRUG SCREENING AND TESTING	\$55	00
FAH	CLINICAL INVESTIGATION PROGRAM	540	
FAK) !! • • • •	•
E 2 2	HOLENI BATTENSES	/215	00.
FAL	HEALTH KELATED PROGRAMS-NEC	\$375	00.
FBA	COMMUNITY HEALTH SERVICES	\$48,112	.17
FBB	PREVENTIVE MEDICINE	\$22,278	.10
FBC	INDUSTRIAL HYGIENE PROGRAM	\$15,746	60
FBD	RADIATION HEALTH PROGRAM	\$70	00
FBE	ENVIRONMENTAL HEALTH PROGRAM	\$1.346	נס:
FBF	EPIDEMIOLOGY HEALTH PROGRAM	\$6.978	4 °C
FBG	OCCUPATIONAL HEALTH PROGRAM	6763 670	
FRH		0/0/50/5	3.28
101			00.
FBI	TWWONTSATIONS	\$75,736	.35
FBX	FBX (COST POOL)	\$1,302	.01
FCA	SUPPLEMENTAL CARE	\$781,520	3,16
FCB	GUEST LECTURER PROGRAM	\$43.	12
FCC	CHAMPUS BENEFICIARY SUPPORT	\$14,109,996	61.77
FCD	SUPPORT TO OTHER MILITARY ACTIVITIES	355,	29.07
FCE	SUPPORT TO OTHER FEDERAL AGENCIES	\$46,	. 18
FDA	CONTINGENCY AND EMERGENCY OPERATIONS	-	0.
FDC	NONPATIENT FOOD OPERATIONS	\$1,336	.01
FDZ	8	\$90,005	. 62
FEA		\$22	00,
FEB	PATIENT MOVEMENT	\$290	00.
			11 11 11 11
		\$23,633,294	100.00

NAVAL MEDICAL COMMAND

DISTRIBUTION OF LABORATORY COSTS

SPECIAL PROGRAM WORK CENTERS - FISCAL YEAR 1985

MEPRS SPECIAL PROGRAM WORK CENTER	MEPRS SPECIAL PROGRAM NAME	LABORATORY COST	PERCENT
FAD	DOD MILITARY BLOOD PROGRAM	\$1,542,621	10.07
	ALCOHOL AND DRUG ABUSE	\$151,539	1.61
	DRUG SCREENING AND TESTING	\$59,827	.51
	CLINICAL INVESTIGATION PROGRAM	\$2,074	.03
	PHYSICAL TRAINING/SUPPORT PROGRAM	\$5,819	.05
	TRAINING AND EDUCATION PROGRAMS	\$21	00.
	COMMUNITY HEALTH SERVICES	\$178,269	1.92
	PREVENTIVE MEDICINE	\$117,779	1.25
	INDUSTRIAL HYGIENE PROGRAM	\$3,806	.04
	RADIATION HEALTH PROGRAM	\$1,278	.02
	ENVIRONMENTAL HEALTH PROGRAM	\$17,037	.21
	EPIDEMIOLOGY HEALTH PROGRAM	\$35,348	.71
FBG	OCCUPATIONAL HEALTH PROGRAM	\$2,832,226	31.39
	VETERINARY SERVICES	\$6,635	. 08
	IMMUNIZATIONS	\$14,345	.22
	FBX (COST POOL)	\$15,094	.24
	SUPPLEMENTAL CARE	\$25,240	. 29
	CHAMPUS BENEFICIARY SUPPORT	\$271,390	3.92
	SUPPORT TO OTHER MILITARY ACTIVITIES	\$4,777,821	45.99
FCE	SUPPORT TO OTHER FEDERAL AGENCIES	\$369,883	1.34
FDA	CONTINGENCY AND EMERGENCY OPERATIONS	\$4,140	90.
FDB	BASE OPERATIONS - MEDICAL INSTALLATIONS	\$2	00.
FDC	NONPATIENT FOOD OPERATIONS	\$2,793	. 04
FEA	PATIENT TRANSPORTATION	\$103	00.
FED	MILITARY PERSONNEL ADMINISTRATION	\$6	00.
		\$10,435,096	100.00

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NAVAL MEDICAL COMMAND

DISTRIBUTION OF RADIOLOGY COSTS

SPECIAL PROGRAM WORK CENTERS - FISCAL YEAR 1985

MEPRS SPECIAL PROGRAM WORK CENTER	MEPRS SPECIAL PROGRAM NAME	RADIOLOGY COST	PERCENT
	ALCOHOL AND DRUG ABUSE	\$30.336	7.2
	COMMUNITY HEALTH SERVICES	\$254.126	2/.
	PREVENTIVE MEDICINE	\$50,804	12.27
	INDUSTRIAL HYGIENE PROGRAM	\$11,310	72.1
FBD	RADIATION HEALTH PROGRAM	\$33	00
	ENVIRONMENTAL HEALTH PROGRAM	\$8,951	.23
	EPIDEMIOLOGY HEALTH PROGRAM	\$1,263	0.
	OCCUPATIONAL HEALTH PROGRAM	\$2,008,183	45.80
	VETERINARY SERVICES	\$19	00
	IMMUNIZATIONS	\$8,113	
	SUPPLEMENTAL CARE	63 417	
	GUEST LECTURER PROGRAM	744104	85.
	CHAMBIC DEVICE TANK CIPPODE	054	00.
	Charifus beneficiary support	\$270,549	6.20
	SUPPORT TO OTHER MILITARY ACTIVITIES	\$1,775,733	39.28
	SUPPORT TO OTHER FEDERAL AGENCIES	\$113.768	3.28
	CONTINGENCY AND EMERGENCY OPERATIONS	\$244	
	BASE OPERATIONS - MEDICAL INSTALLATIONS	\$263	100
	NONPATIENT FOOD OPERATIONS	\$17.788	3.3
	TDY/TAD ENROUTE TO PCS	\$29	00.
		\$4,554,959	100.00

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NAVAL MEDICAL COMMAND

DISTRIBUTION OF PHARMACY COSTS

SPECIAL PROGRAM WORK CENTERS - FISCAL YEAR 1986

MEPRS SPECIAL PROGRAM WORK CENTER	MEPRS SPECIAL PROGRAM NAME	PHARMACY COST	PERCENT
FAE	ALCOHOL AND DRUG ABUSE	\$402,128	2.46
	DRUG SCREENING AND TESTING	*	00
	CLINICAL INVESTIGATION PROGRAM	\$1,586	0.
	TRAINING AND EDUCATION PROGRAMS	\$30	00
	STUDENT EXPENSES	9\$	00
FAZ	HEALTH RELATED PROGRAMS-NEC	\$1,612	.01
	COMMUNITY HEALTH SERVICES	\$1,018,282	5.90
	PREVENTIVE MEDICINE	\$97,635	.53
	RADIATION HEALTH PROGRAM	\$134	00.
	SUPPLEMENTAL CARE	\$393,640	2.10
	GUEST LECTURER PROGRAM	\$1,382	.01
	CHAMPUS BENEFICIARY SUPPORT	\$10,878,302	62.68
	SUPPORT TO OTHER MILITARY ACTIVITIES	\$3,538,300	25.42
	SUPPORT TO OTHER FEDERAL AGENCIES	\$52,914	7.7
	CONTINGENCY AND EMERGENCY OPERATIONS	\$740	
	BASE OPERATIONS - MEDICAL INSTALLATIONS	\$432	8 6
FDC	NONPATIENT FOOD OPERATIONS	\$26.102	90.
FDZ	MILITARY UNIQUE ACTIVITIES-NEC	\$62	
FEA	PATIENT TRANSPORTATION	\$262	00.
			H H H
		\$16,413,549	100.00

^{*}Cost data missing when MEPRS PCOM files submitted for analysis.

NAVAL MEDICAL COMMAND

DISTRIBUTION OF LABORATORY COSTS

SPECIAL PROGRAM WORK CENTERS - FISCAL YEAR 1986

MEPRS SPECIAL PROGRAM WORK CENTER	MEPRS SPECIAL Program name	LABORATORY COST	PERCENT
FAC	OPHTHALMIC FABRICATION AND REPAIR	8	00
	DOD MILITARY BLOOD PROGRAM	32.536.9	10.42
	ALCOHOL AND DRUG ABUSE	5213.802	76.01
	CLINICAL INVESTIGATION PROGRAM		6.63
	PHYSICAL TRAINING/SUPPORT PROGRAM		10.
	COMMUNITY HEALTH SERVICES	32.435.	00. or
	PREVENTIVE MEDICINE	\$6.689	90.0
	KADIATION HEALTH PROGRAM		• •
	SUPPLEMENTAL CARE	ď	5.5
	GUEST LECTURER PROGRAM		61.
	CHAMPUS BENEFICIARY SUPPORT	600,24 AAA 000A	, 0. 20.
	SUPPORT TO OTHER MILITARY ACTIVITIES	C3 014 705	77.5
	SUPPORT TO OTHER PEDERAL AGENCIES	70/ 'FTO' 'C'	42.75
	CONTINGENCY AND EMERGENCY OPERATIONS	47 / C24 45 pc2	
	BASE OPERATIONS - MEDICAL INSTALLATIONS		. 0.5 0.6
	NONPATIENT FOOD OPERATIONS		00.
	DECEDENT APPAIDS	,	00.
			.01
	MILLIARY PERSONNEL ADMINISTRATION	\$2,910	.03
			10 10 11
		\$8,493,976	100.00

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NAVAL MEDICAL COMMAND

DISTRIBUTION OF RADIOLOGY COSTS

SPECIAL PROGRAM WORK CENTERS - FISCAL YEAR 1986

MEPRS SPECIAL PROGRAM WORK CENTER	MEPRS SPECIAL PROGRAM NAME	RADIOLOGY COST	PERCENT
FAC	OPHTHALMIC FABRICATION AND REPAIR	\$102	00
	ALCOHOL AND DRUG ABUSE	\$50,177	. 70
	CLINICAL INVESTIGATION PROGRAM	\$13,054	.13
	COMPANIES INTRING/SUPPORT PROGRAM	\$57,650	. 59
	COMMONITY NEALTH SERVICES	\$3,148,126	57.05
	PADIATIVE REDICINE	\$6,020	90.
	SIDDIFFERENCE CADE		00.
	GUEST LECTIVED DECEMBE	\$4,	8 0 ·
	CHAMPUS BENEFICIADY SIDDOP		00.
	SUPPORT TO OTHER MITTERS ACTUALS	\$158,354 6. 202	1.97
	SUPPORT TO OTHER MILLIAMI ACRICIES	\$1,736,875	38.67
	BASE OPERATIONS - MEDICAL INCRNITAGES	\$38,370	.71
	NONDATIENT ECON OPENATONS		00.
	DECEMBER 1 1 000 OFFICE OF TORS	\$1,468	.01
	DECEDENT AFFAIRS	\$299	00.
	PALLENT TRANSPORTATION	\$19	00
	MILLITARY PERSONNEL ADMINISTRATION	•	00.
			H
		\$5,215,998	100.00

TABLE A-7

NAVAL MEDICAL COMMAND

DISTRIBUTION OF PHARMACY COSTS

CHAMPUS BENEFICIARY SUPPORT SUBACCOUNT WORK CENTER (FCC)

FISCAL YEAR 1985

FACILITY NAME	PHARMACY COST	PERCENT OF TOTAL BUDGET
NMC PORTSMOUTH NH	\$113,707	16.03
NMC ANNAPOLIS	\$174,965	18.20
NH PORTSMOUTH	\$327,068	3.72
NH PENSACOLA	\$752,211	15.56
NH GREAT LAKES	\$1,134	.04
NH JACKSONVILLE	\$1,065,327	16.87
NH SAN DIEGO	\$2,008,706	17.09
NMC KEY WEST	\$96,352	16.53
NH CORPUS CHRISTI	\$267,134	12.96
NH OAKLAND	\$1,181,730	12.95
NMC WASHINGTON DC	\$9,845	2.05
NMC SAN DIEGO	\$280,212	18.91
NH MILLINGTON	\$255,265	11.71
NH BEAUFORT	\$58,719	3.93
NH GROTON	\$2,696	.14
NH ROOSEVELT ROADS	\$399	.05
NH ORLANDO	\$1,026,754	28.77
NH CHERRY POINT	\$8,951	.85
NH OAK HARBOR	\$164,639	15.54
NH PATUXENT RIVER	\$13,69 5	1.77
NMC PORT HUENEME	\$4 7 8 ,010	43.26
NMC NEW ORLEANS	\$123,579	20.13
NH CHARLESTON	\$8 12,590	18.51
NH NEWPORT	\$423,90 7	20.39
NH LONG BEACH	\$1,109,409	22.28
NH CAMP LEJEUNE	\$664,356	18.23
NH CAMP PENDLETON	\$379,578	8.44
NH BREMERTON	\$141,072	6.73
NMC PEARL HARBOR	\$134,286	9.66
NH PHILADELPHIA	\$664,404	19.71
NMC NORFOLK	\$1,369,295	19.48
	\$14,109,995	

TABLE A-8

NAVAL MEDICAL COMMAND

DISTRIBUTION OF LABORATORY COSTS

CHAMPUS BENEFICIARY SUPPORT SUBACCOUNT WORK CENTER (FCC)

FISCAL YEAR 1985

FACILITY	LABORATORY	PERCENT OF
NAME	COST	TOTAL BUDGET
	_	
NMC ANNAPOLIS	\$785	. 29
NH PORTSMOUTH	\$7,196	. 08
NH PENSACOLA	\$21,085	.97
NH GREAT LAKES	\$5,26 7	. 22
NH SAN DIEGO	\$1,315	.02
NH CORPUS CHRISTI	\$26,506	2.46
NH OAKLAND	\$63 5	. 01
NMC SAN DIEGO	\$613	. 15
NH MILLINGTON	\$27,275	1.91
NH BEAUFORT	\$6,980	. 79
NH GROTON	\$16,406	1.17
NH ORLANDO	\$39,500	2.32
NH NAPLES	\$6	. 00
NH OAK HARBOR	\$80	. 02
NH NEWPORT	\$26,515	1.14
NH LONG BEACH	\$266	.01
NH CAMP LEJEUNE	\$55,252	2.26
NH BREMERTON	\$ 5,153	. 30
NH PHILADELPHIA	\$2,782	.09
NMC NORFOLK	\$27,772	1.23

	\$271,389	
	45,11,10)	

TABLE A-9

DISTRIBUTION OF RADIOLOGY COSTS

CHAMPUS BENEFICIARY SUPPORT SUBACCOUNT WORK CENTER (FCC)

FACILITY NAME	RADIOLOGY COST	PERCENT OF TOTAL BUDGET
NMC ANNAPOLIS	\$7,506	2.02
NH PENSACOLA	\$1,025	.05
NH GREAT LAKES	\$2,312	.17
NH SAN DIEGO	\$1,325	.02
NMC KEY WEST	\$11,040	3.56
NH CORPUS CHRISTI	\$19,930	2.54
NH BEAUFORT	\$2,254	.37
NH GROTON	\$10,396	1.25
NH CHERRY POINT	\$278	.07
NH PATUXENT RIVER	\$280	.10
NH NEWPORT	\$24, 673	2.92
NH LONG BEACH	\$92,730	4.90
NH CAMP LEJEUNE	\$58,052	3.48
NH BREMERTON	\$7,428	.83
NH PHILADELPHIA	\$115	.01
NMC NORFOLK	\$31,206	1.77
	\$270,550	

TABLE A-10

DISTRIBUTION OF PHARMACY COSTS

CHAMPUS BENEFICIARY SUPPORT SUBACCOUNT WORK CENTER (FCC)

FACILITY	PHARMACY	PERCENT OF
NAME	COST	TOTAL BUDGET
	* **** 5 ***	16.12
NMC ANNAPOLIS	\$116,571	16.12
NH PORTSMOUTH	\$218,707	2.71
NH PENSACOLA	\$589,064	9.08
NH GREAT LAKES	\$170,773	4.93
NH JACKSONVILLE	\$735,80 6	13.30
NH SAN DIEGO	\$1,372,936	9.59
NH CORPUS CHRISTI	\$193,635	9.76
NH OAKLAND	*	7.35
NMC SAN DIEGO	*	19.06
NH MILLINGTON	\$238,377	10.33
NH BEAUFORT	\$40,132	2.56
NH GROTON	\$74,819	3.55
AIR STA YUMA	*	22.68
NH ORLANDO	\$1,685,073	24.77
NMC SEATTLE	\$257,751	28.78
NH CHERRY POINT	\$ 70,133	5.65
NH OAK HARBOR	\$582	.06
NH PATUXENT RIVER	\$23,002	2.27
NMC PORT HUENEME	\$383,008	33.35
NH NEWPORT	\$553,052	13.59
NH LONG BEACH	\$1,194,537	21.36
NH CAMP LEJEUNE	\$320,698	8.10
NH CAMP PENDLETON	\$203,234	4.35
NH BREMERTON	\$151,316	6.03
NH GUAM	\$13,407	.49
NH PHILADELPHIA	\$556,806	14.07
NMC NORFOLK	\$1,714,884	20.61

	\$10,878,303	

^{*}Cost data missing when NEPRS PCOM files submitted for analysis.

TABLE A-11

DISTRIBUTION OF LABORATORY COSTS

CHAMPUS BENEFICIARY SUPPORT SUBACCOUNT WORK CENTER (FCC)

FISCAL YEAR 1986

FACILITY NAME	LABORATORY COST	PERCENT OF TOTAL BUDGET
NMC ANNAPOLIS	\$7,801	2.46
NH PENSACOLA	\$47,909	1.77
NH SAN DIEGO	\$1,396	.02
NH CORPUS CHRISTI	\$10,084	.76
NH OAKLAND	*	.05
NMC WASHINGTON DC	\$74	.03
NH MILLINGTON	\$25,810	1.56
NH BEAUFORT	\$4,981	.48
NH GROTON	\$5,342	.35
AIR STA YUMA	*	.61
NH ORLANDO	\$53,034	2.57
NH NEWPORT	\$527	.02
NH CAMP LEJEUNE	\$209	.01
NH CAMP PENDLETON	\$12	.00
NH BREMERTON	\$1,093	.04
NH PHILADELPHIA	\$32,665	1.00
NMC NORFOLK	\$38,619	1.64
	\$229,5 56	

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^{*}Cost data missing when MEPRS PCOM files submitted for analysis.

TABLE A-12

DISTRIBUTION OF RADIOLOGY COSTS

CHAMPUS BENEFICIARY SUPPORT SUBACCOUNT WORK CENTER (FCC)

FACILITY	RADIOLOGY	PERCENT OF
NAME	COST	TOTAL BUDGET
MAC ANNA DOLLE	624 573	c 12
NMC ANNAPOLIS	\$24,573	6.12
NH PENSACOLA	\$185	.01
NH SAN DIEGO	\$30	.00
NMC KEY WEST	\$6,260	2.43
NH CORPUS CHRISTI	\$43,209	4.29
NH MILLINGTON	\$191	.02
NH BEAUFORT	\$6,534	.79
NH GROTON	\$12,526	1.42
AIR STA YUMA	*	.25
NH CHERRY POINT	\$1,599	.40
NH NEWPORT	\$13,977	1.49
NH LONG BEACH	\$10,193	.43
NH CAMP LEJEUNE	\$16,557	.94
NH CAMP PENDLETON	\$2,074	.10
NH BREMERTON	\$6,715	.48
NH GUAM	\$84	.01
NH OKINAWA	\$1,330	.12
NMC NORFOLK	\$12,318	.60
	*=====	
	\$158,355	

^{*}Cost data missing when MEPRS PCOM files submitted for analysis.

APPENDIX B

NAVAL MEDICAL COMMAND

PLOTS OF PERCENT OF ANCILLARY BUDGET FOR CHAMPUS SUPPORT

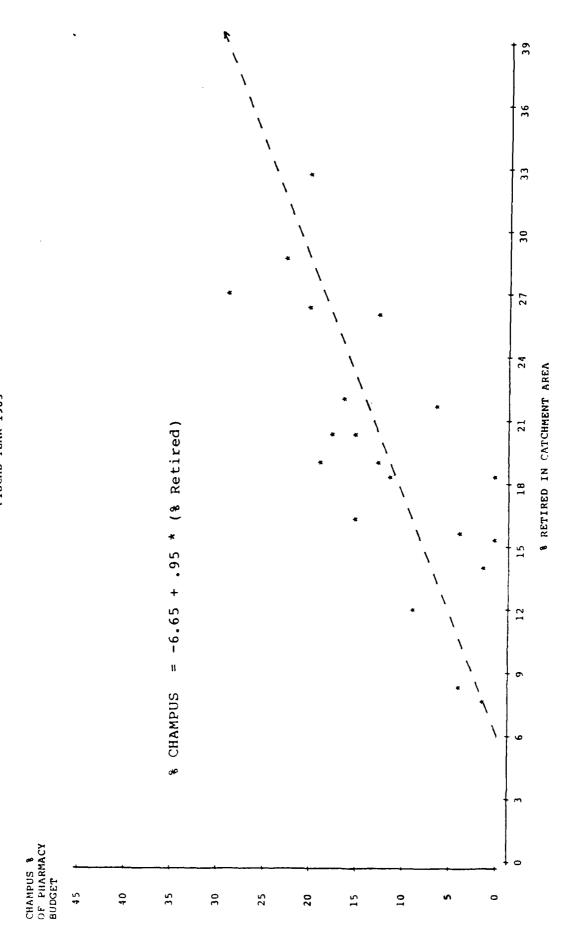
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PERCENT RETIRED IN CATCHMENT AREA

AVERAGE AGE OF CATCHMENT POPULATION

FISCAL YEARS 1985 AND 1986

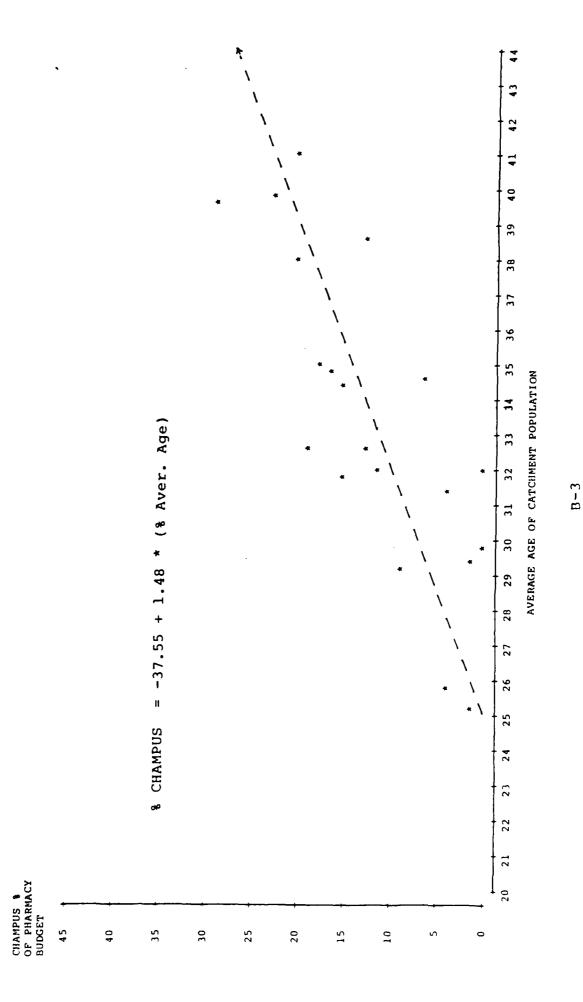
FIGURE B-1
NAVAL MEDICAL COMMAND HOSPITALS
PERCENT OF PHARMACY BUDGET FOR CHAMPUS SUPPORT PERCENT OF PHARMACY BUDGET FOR CHAMPUS SUPPORT BY PERCENT RETIRED IN CATCHMENT POPULATION



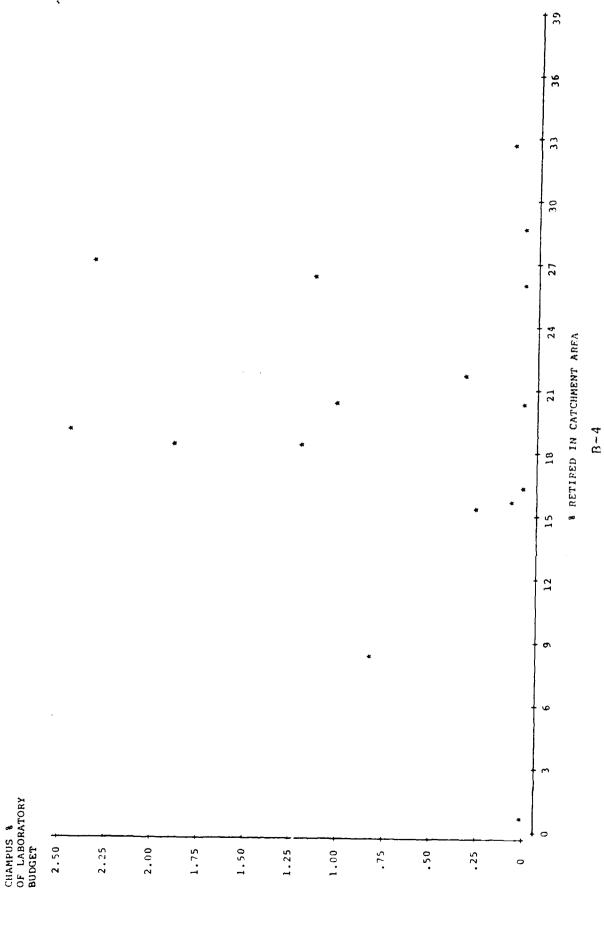
NAVAL MEDICAL COMMAND HOSPITALS

PERCENT OF PHARMACY BUDGET FOR CHAMPUS SUPPORT

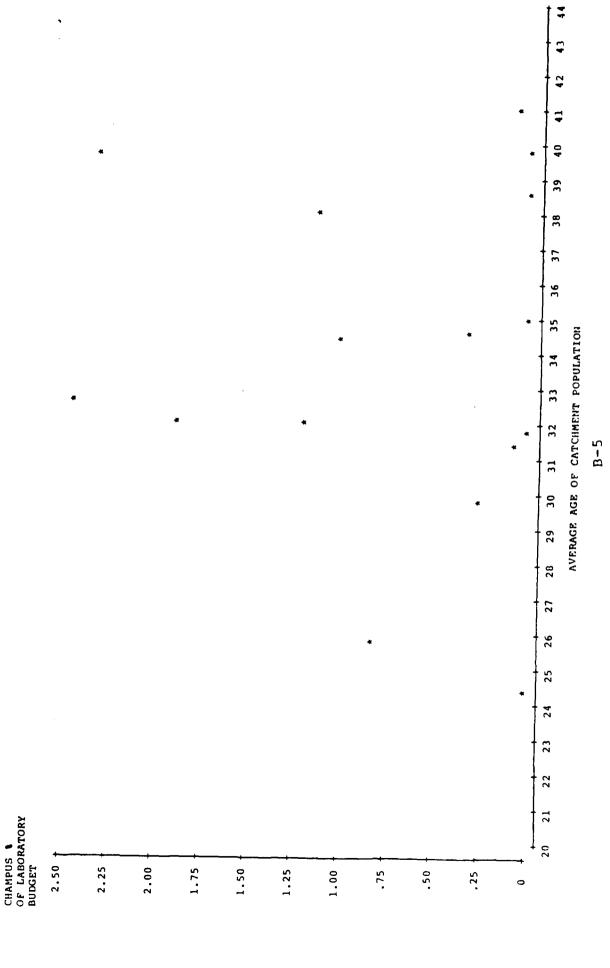
BY AVERAGE AGE OF CATCHMENT POPULATION



NAVAL MEDICAL COMMAND HOSPITALS
PERCENT OF LABORATORY BUDGET FOR CHAMPUS SUPPORT
BY PERCENT RETIRED IN CATCHMENT POPULATION



NAVAL MEDICAL COMMAND HOSPITALS
PERCENT OF LABORATORY BUDGET FOR CHAMPUS SUPPORT
BY AVERAGE AGE OF CATCHMENT POPULATION

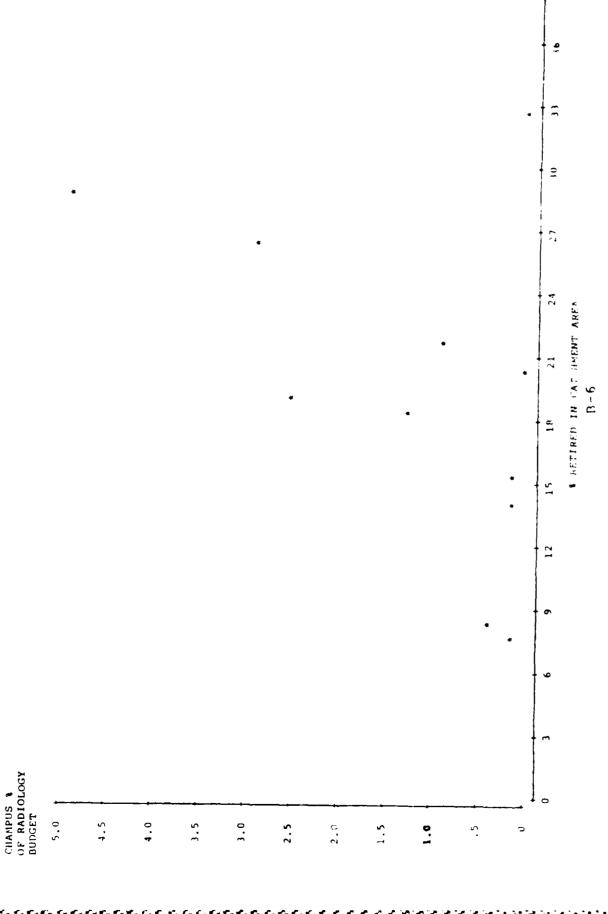


NAVAL MEDICAL COMMAND HOSPITALS

PERCENT OF RADIOLOGY BUINGET FOR CHAMPUS SUPPORT

DY PERCENT RETIRED IN CATCHMENT POPULATION

FISCAL YEAR 1985



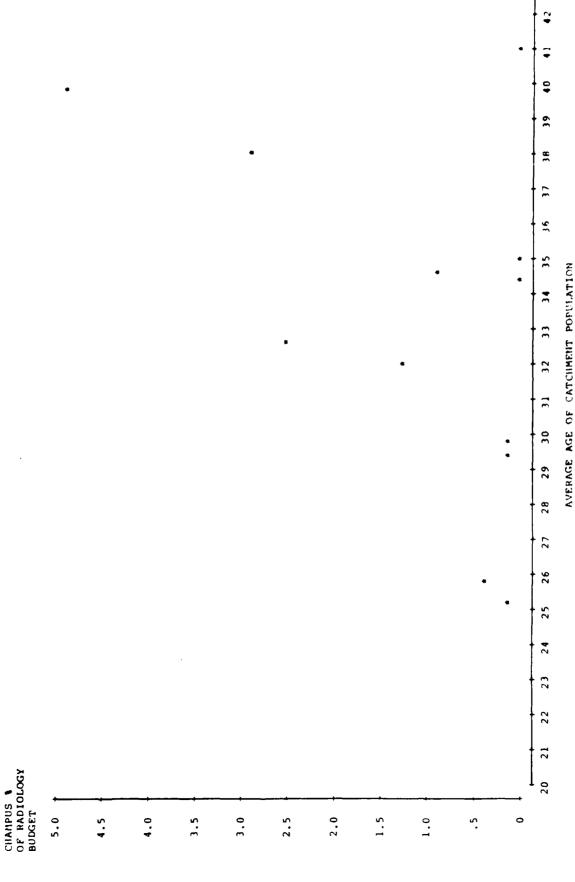
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NAVAL MEDICAL COMMAND HOSPITALS

PERCENT OF RADIOLOGY BUDGET POR CHAMPUS SUPPORT

BY AVERAGE AGE OF CATCHMENT POPULATION

FISCAL YEAR 1985



AVERAGE AGE OF CATCHMENT POPULATION

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NAVAL MEDICAL COMMAND HOSPITALS

PERCENT OF PHARMACY BUDGET FOR CHAMPUS SUPPORT BY PERCENT RETIRED IN CAFCHMENT POPULATION

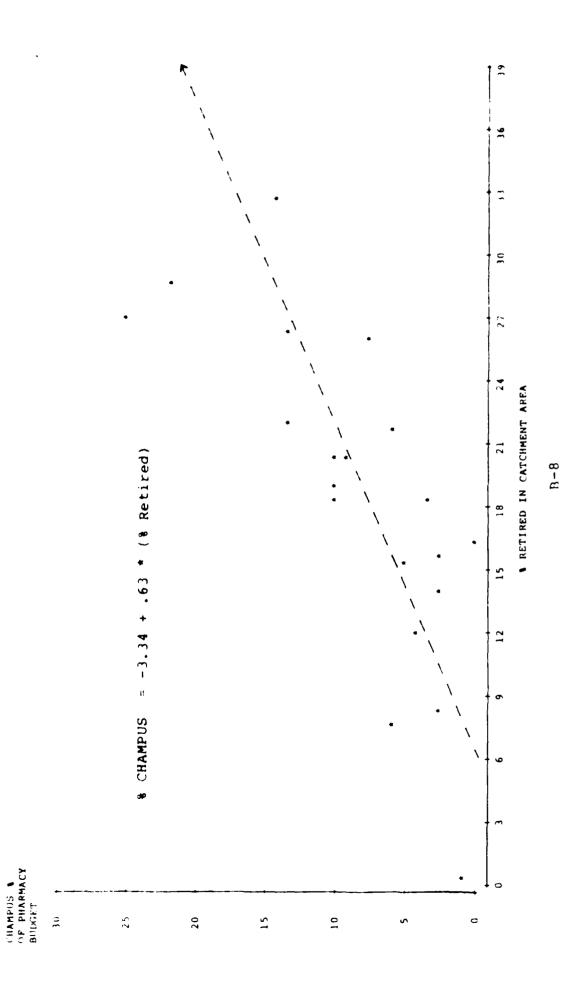
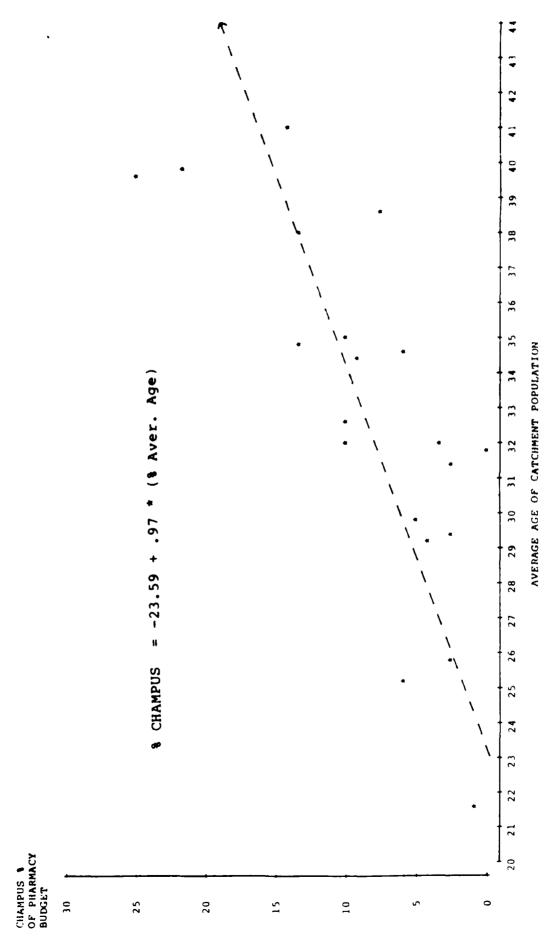


FIGURE B-8

NAVAL MEDICAL COMMAND HOSPITALS PERCENT OF PHARMACY BUDGET FOR CHAMPUS SUPPORT BY AVERAGE AGE OF CATCHMENT POPULATION

FISCAL YEAR 1986



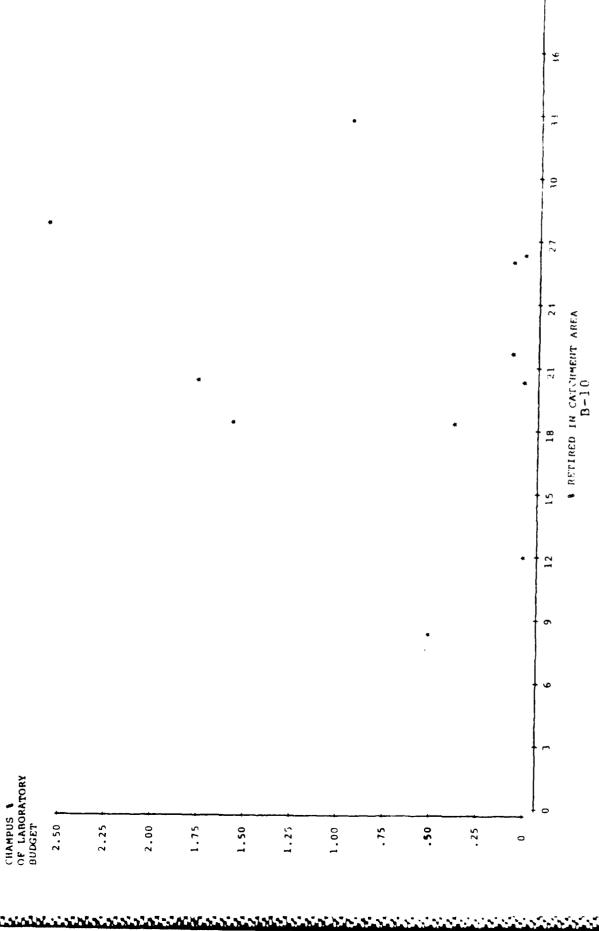
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NAVAL MEDICAL COMMAND HOSPITALS

PERCENT OF LABORATORY BUDGET FOR CHAMPUS SUPPORT BY PERCENT RETIRED IN CATCHMENT POPULATION

FISCAL YEAR 1986

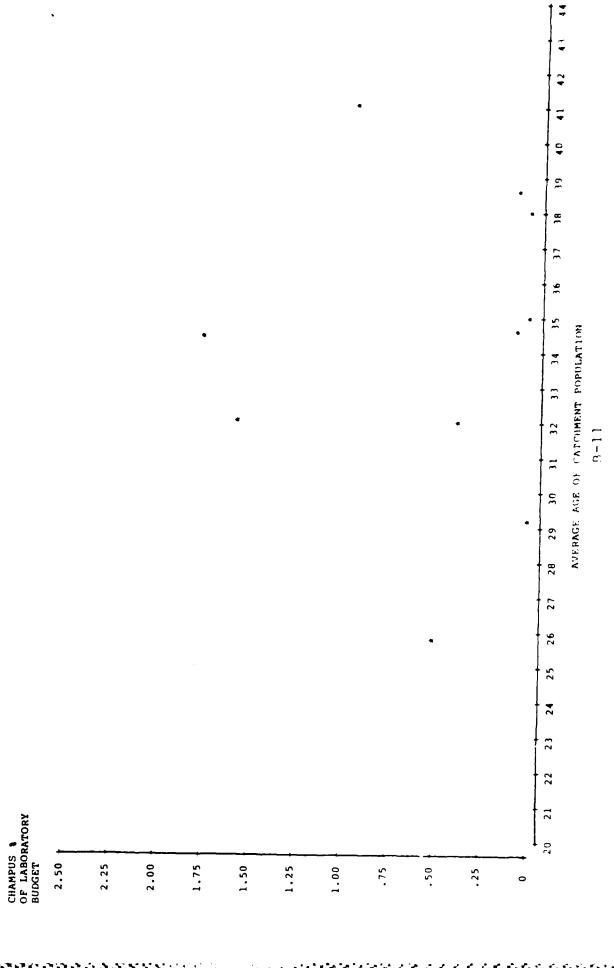


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NAVAL MEDICAL COMMAND HOSPITALS

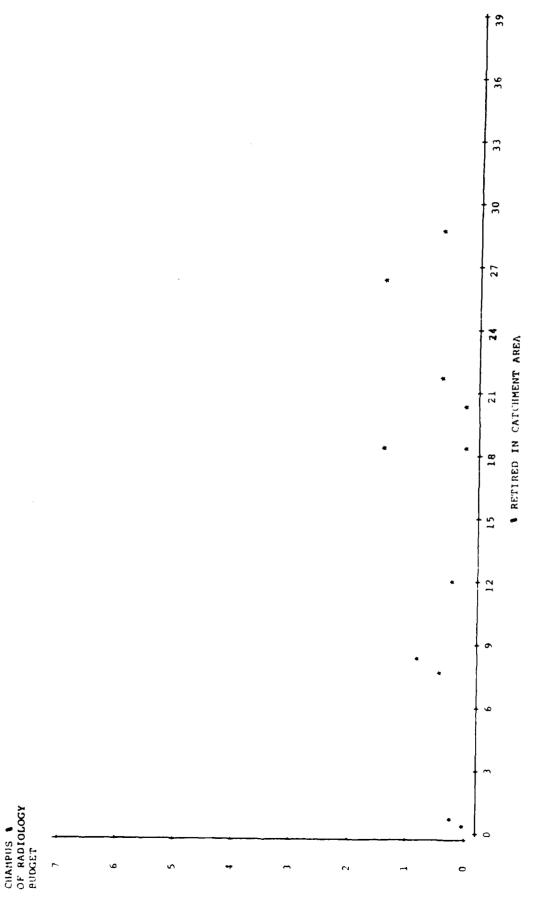
PERCENT OF LABORATORY BUDGET FOR CHAMPUS SUPPORT

BY AVERAGE AGE OF CATCHMENT POPULATION



NAVAL MEDICAL COMMAND HOSPITALS
PERCENT OF RADIOLOGY BUDGET FOR CHAMPUS SUPPORT
BY PERCENT RETIRED IN CATCHMENT POPULATION

FISCAL YEAR 1986

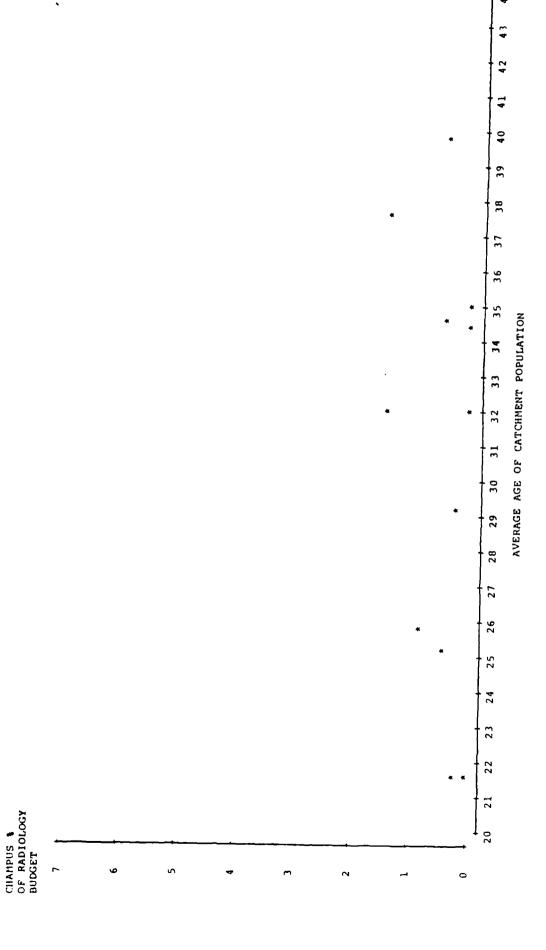


NAVAL MEDICAL COMMAND HOSPITALS

PERCENT OF RADIOLOGY BUDGET FOR CHAMPUS SUPPORT

BY AVERAGE AGE OF CATCHMENT POPULATION

FISCAL YEAR 1986



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APPENDIX C

NAVAL MEDICAL COMMAND

ANALYSIS OF VARIANCE TABLES

PREDICTION OF ANCILLARY BUDGET FOR CHAMPUS SUPPORT

BY

PERCENT RETIRED IN CATCHMENT AREA

AVERAGE AGE OF CATCHMENT POPULATION

FISCAL YEARS 1985 AND 1986

NAVAL MEDICAL COMMAND HOSPITALS

PREDICTION OF PHARMACY BUDGET FOR CHAMPUS SUPPORT

BY AVERAGE AGE OF CATCHMENT POPULATION

FISCAL YEAR 1985

ANALYSIS OF VARIANCE

fe.		
PROB>F	0.0001	
F VALUE	30.403	0.6281
MEAN SQUARE	830.85617 27.32853898	R-SQUARE ADJ R-SQ
SUM OF SQUARES	830.85617 491.91370 1322.76987	5.227671 11.89771 43.93845
DF	1 18 19	MSE
SOURCE	MODEL ERROR C TOTAL	ROOT MSE DEP MEAN C.V.

PARAMETER ESTIMATES

ARIABLE I NTERCEPT	DF 1	PARAMETER ESTIMATE -37.54520683	STANDARD ERROR 9.04291629	T FOR HO: PARAMETER=0 -4.152	PROB > T
AGE	ч	1.48343590	0.26903827	5.514	0.0001

NAVAL MEDICAL COMMAND HOSPITALS

PREDICTION OF LABORATORY BUDGET FOR CHAMPUS SUPPORT

BY PERCENT RETIRED IN CATCHMENT POPULATION

FISCAL YEAR 1985

ANALYSIS OF VARIANCE

PROB>F	0.6912	
F VALUE	0.164	0.0116
MEAN SQUARE	0.12974767 0.78886598	R-SQUARE ADJ R-SQ
SUM OF SQUARES	0.12974767 11.04412372 11.17387140	0.8881813 0.7200986 123.3416
DF	14 15	ASE EAN
SOURCE	MODEL ERROR C TOTAL	ROOT MSE DEP MEAN C.V.

PARAMETER ESTIMATES

RIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FOR HO: PARAMETER=0	PROB > T
ERCEPT	~	0.48859624	0.61249623	0.798	0.4384
TIRED	~	0.01176286	0.02900446	0.406	0.6912

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NAVAL MEDICAL COMMAND HOSPITALS

PREDICTION OF LABORATORY BUDGET FOR CHAMPUS SUPPORT

BY AVERAGE AGE OF CATCHMENT POPULATION

FISCAL YEAR 1985

ANALYSIS OF VARIANCE

PROB>F	0.8028					
F VALUE	0.065			0.0046	-0.0665	
MEAN SOUARE	0.05147399	0.79445696		R-SQUARE	ADJ R-SQ	
SUM OF	0.05147399	11.12239741	11.17387140	0.8913232	0.7200986	123.7779
DF	-	14	15	MSE	EAN	
SOURCE	MODEL	ERROR	C TOTAL	ROOT MSE	DEP M	C.V.

PARAMETER ESTIMATES

PROB > T	0.8493
T FOR HO: PARAMETER=0	0.194
STANDARD ERROR	1.61594041
PARAMETER ESTIMATE	0.31270404
DF	תת
VARIABLE	INTERCEPT AVERAGE AGE

NAVAL MEDICAL COMMAND HOSPITALS

PREDICTION OF RADIOLOGY BUDGET FOR CHAMPUS SUPPORT

BY PERCENT RETIRED IN CATCHMENT POPULATION

FISCAL YEAR 1985

ANALYSIS OF VARIANCE

3>F	350	
PROB>F	0.1350	
F VALUE	2.644	0.2091
MEAN SQUARE	5.61154234 2.12238073	R-SQUARE ADJ R-SQ
SUM OF	5.61154234 21.22380729 26.83534963	1.456839 1.102242 132.1706
DF	1 10 11	ROOT MSE DEP MEAN C.V.
SOURCE	MODEL ERROR C TOTAL	ROOT DEP C.V.

PARAMETER ESTIMATES

PROB > T	0.5556
T FOR HO: PARAMETER=0	-0.610 1.626
STANDARD ERROR	1.20580883
PARAMETER ESTIMATE	-0.73532682 0.09469527
D.F.	нн
VARIABLE	INTERCEPT % RETIRED

NAVAL MEDICAL COMMAND HOSPITALS

PREDICTION OF RADIOLOGY BUDGET FOR CHAMPUS SUPPORT

BY AVERAGE AGE OF CATCHMENT POPULATION

FISCAL YEAR 1985

ANALYSIS OF VARIANCE

PROB>F	0.1159	
F VALUE	2.964	0.2286
MEAN SQUARE	6.13496793 2.07003817	R-SQUARE ADJ R-SQ
SUM OF	6.13496793 20.70038169 26.83534963	1.438763 1.102242 130.5306
DF	1 10 11	MSE
SOURCE	MODEL ERROR C TOTAL	ROOT MSE DEP MEAN C.V.

PARAMETER ESTIMATES

PROB > T	0.2166
T FOR HO: PARAMETER=0	-1.319
STANDARD ERROR	2.86676104
PARAMETER ESTIMATE	-3.78092991 0.14752785
DF	ત ત
VARIABLE	INTERCEPT AVERAGE AGE

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NAVAL MEDICAL COMMAND HOSPITALS

PREDICTION OF PHARMACY BUDGET FOR CHAMPUS SUPPORT

BY PERCENT RETIRED IN CATCHMENT POPULATION

FISCAL YEAR 1986

ANALYSIS OF VARIANCE

PROB>F	0.0002	
F VALUE	22.308	0.5534
MEAN SQUARE	458.55573 20.55554232	R-SQUARE ADJ R-SQ
SUM OF SQUARES	458.55573 369.99976 828.55549	4.533822 8.29039 54.68768
DF	1 18 19	MSE
SOURCE	MODEL ERROR C TOTAL	ROOT MSE DEP MEAN C.V.

PARAMETER ESTIMATES

PROB > T	0.2260
T FOR HO: PARAMETER=0	-1.254
STANDARD ERROR	2.66252273 0.13302166
PARAMETER ESTIMATE	-3.33781532 0.62828102
DF	
VARIABLE	INTERCEPT % RETIRED

NAVAL MEDICAL COMMAND HOSPITALS

PREDICTION OF PHARMACY BUDGET FOR CHAMPUS SUPPORT

BY AVERAGE AGE OF CATCHMENT POPULATION

FISCAL YEAR 1986

ANALYSIS OF VARIANCE

PROB>F	0.0001	
F VALUE	25.157	0.5829 0.5597
MEAN SQUARE	482.97967 19.19865704	R-SQUARE ADJ R-SQ
SUM OF SQUARES	482.97967 345.57583 828.55549	4.381627 8.29039 52.85188
DF	1 18 19	MSE
SOURCE	MODEL ERROR C TOTAL	ROOT MSE DEP MEAN C.V.

PARAMETER ESTIMATES

HO: PROB > T	-3.668 0.0018 5.016 0.0001
T FOR HO: PARAMETER=0)
STANDARD	6.43030323
ESTIMATE	-23.58531726 0.97241328
DF	
VARIABLE	INTERCEPT AVERAGE AGE

Production processes programmed and processes processes

NAVAL MPDICAL COMMAND HOSPITALS

PREDICTION OF PHARMACY BUDGET FOR CHAMPUS SUPPORT

BY AVERAGE AGE OF CATCHMENT POPULATION (SQUARED)

FISCAL YEAR 1986

ANALYSIS OF VARIANCE

PROB>F	0.0001	
F VALUE	16.145	0.6551 0.6145
MEAN SQUARE	271.39560 16.80966383	R-SQUARE ADJ R-SQ
SUM OF SQUARES	542.79121 285.76429 828.55549	4.099959 8.29039 49.45436
0 F	2 17 19	MSE
SOURCE	MODEL ERROR C TOTAL	ROOT MSE DEP MEAN C.V.

PARAMETER ESTIMATES

VARIABLE	DF	PAKAMETEK ESTIMATE	STANDARD ERROR	T FOR HO: PARAMETER=0	PROB > T
INTERCEPT AVERAGE AGE AVER. AGE (SQUARED)		32.33228615 -2.60991573 0.05591581	30.24839275 1.90776529 0.02964297	1.069 -1.368 1.886	0.3001 0.1891 0.0765

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NAVAL MEDICAL COMMAND HOSPITALS

PREDICTION OF LABORATORY BUDGET FOR CHAMPUS SUPPORT

BY PERCENT RETIRED IN CATCHMENT POPULATION

FISCAL YEAR 1986

ANALYSIS OF VARIANCE

PROB>F	0.4813	
F VALUE	0.540	0.0566
MEAN SQUARE	0.44599145 0.82660917	R-SQUARE ADJ R-SQ
SUM OF SQUARES	0.44599145 7.43948256 7.88547401	0.9091805 0.7097784 128.0936
DF	1 9 10	MSE
SOURCE	MODEL ERROR C TOTAL	ROOT MSE DEP MEAN C.V.

PARAMETER ESTIMATES

DROB > T	0.9372
T FOR HO: PARAMETER=0	0.081
STANDARD ERROR	0.90847527
PARAMETER ESTIMATE	0.07357468 0.03029127
DF	
VARIABLE	INTERCEPT & RETIRED

ASSESSED MANAGEMENT KKILLINGS PAKILLINGS (KASSESSE)

NAVAL MEDICAL COMMAND HOSPITALS

PREDICTION OF LABORATORY BUDGET FOR CHAMPUS SUPPORT

BY AVERAGE AGE OF CATCHMENT POPULATION

FISCAL YEAR 1986

ANALYSIS OF VARIANCE

UE PROB>F	0.4591	23 19
F VALUE	0.598	0.0623
MEAN SQUARE	0.49135503 0.82156877	R-SQUARE ADJ R-SQ
SUM OF SQUARES	0.49135503 7.39411897 7.88547401	0.9064043
DF	1 9 10	MSE
SOURCE	MODEL ERROR C TOTAL	ROOT MSE DEP MEAN

PARAMETER ESTIMATES

PROB > T	0.6720
T FOR HO: PARAMETER=0	-0.438
STANDARD ERROR	2.15403191 0.06188223
PAKAMETER ESTIMATE	-0.94257906 0.04785659
DF	
VARIABLE	INTERCEPT AVERAGE AGE

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ANNIONAL PERSONAL SECTIONS (SECTIONAL PROSESSAND)

NAVAL MEDICAL COMMAND HOSPITALS

PREDICTION OF RADIOLOGY BUDGET FOR CHAMPUS SUPPORT

BY PERCENT RETIRED IN CATCHMENT POPULATION

FISCAL YEAR 1986

ANALYSIS OF VARIANCE

PROB>F	0.2795	
F VALUE	1.307	0.1156 0.0272
MEAN SQUARE	0.36249646 0.27725481	R-SQUARE Adj R-SQ
SUM OF	0.36249646 2.77254811 3.13504457	0.5265499 0.4388581 119.9818
DF	1 10 11	MSE
SOURCE	MODEL ERROR C TOTAL	ROOT MSE DEP MEAN C.V.

PARAMETER ESTIMATES

PROB > T	0.6425
T FOR HO: PARAMETER=0	0.479
STANDARD ERROR	0.29973749
PARAMETER ESTIMATE	0.14346598 0.01936713
DF	
VARIABLE	INTERCEPT & RETIRED

NAVAL MEDICAL COMMAND HOSPITALS

PREDICTION OF RADIOLOGY BUDGET FOR CHAMPUS SUPPORT

BY AVERAGE ACE OF CATCHMENT POPULATION

FISCAL YEAR 1986

ANALYSIS OF VARIANCE

PROB>F	0.3448	
F VALUE	0.983	0.0895
MEAN SQUARE	0.28067137 0.28543732	R-SQUARE ADJ R-SQ
SUM OF SQUARES	0.28067137 2.85437320 3.13504457	0.5342633 0.4388581 121.7394
DF	1 10 11	MSE
SOURCE	MODEL ERROR C TOTAL	ROOT MSE DEP MEAN C.V.

PARAMETER ESTIMATES

PROB > T	0.6685
T FOR HO: PARAMETER=0	-0.441 0.992
STANDARD ERROR	0.82342836
PARAMETER ESTIMATE	-0.36321660 0.02610495
DF	
VARIABLE	INTERCEPT AVERAGE AGE

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